

**PART 1 – GENERAL**

- 1.1 Precedence .1 For Federal Government projects, Division 1 Sections take precedence over technical specification sections in other Divisions of this Project Specifications document.
- 1.2 Definitions .1 “Parks Canada Agency”, abbreviated as “PCA” and “Parks Canada, abbreviated as “PC” shall mean one and the same.
- .2 “Department” shall mean Parks Canada and is abbreviated as “PC”.
- .3 “Departmental Representative”, abbreviated as “DR” shall mean the person designated by written notice at time of award of contract from PC to the Contractor, to be recognized as the Departmental Representative and shall perform the following:
- .1 Is responsible for all matters concerning the technical content of the work under the contract
- .2 Authorized to issue notices, instructions, and changes within the scope of the Work, relevant to the contract
- .3 Accept on behalf of Canada any notice, order or other communication from the contractor relating to the Work
- .4 Within a reasonable time, review and respond to submissions made by the Contractor in accordance with the requirements of the Contract.
- The DR has no authority to authorize changes to the Contract terms and conditions of the Contract.
- The DR may appoint additional persons to act on their behalf in inspecting and monitoring the Work.
- .4 "Contracting Authority" shall be recognized as the authority delegated by PC to enter into contracts, amend the contracts and is responsible for all matters concerning and interpretation of the terms and conditions of the Contract. The Contracting Authority is responsible for the management of the Contract and any changes to the Contract terms and conditions must be authorized in writing by the Contracting Authority.
- .5 “Owner” shall mean Parks Canada, Coastal BC Field Unit, Pacific Rim National Park Reserve.
- .6 “Contractor” shall mean the person, firm, or corporation identified as such in the *Agreement* and includes the *Contractors* authorized representative.
- .7 “Owners Archaeological Monitor” (OAM) is an individual retained by PCA to assess and monitor for the presence/absence of cultural resource sites and recommend and implement mitigations if Chance Finds are encountered.
- .8 “Owner’s Environmental Monitor” (OEM) shall mean a representative appointed by PCA for the purpose of execution of the contract.
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- .9 “First Nations Monitor” (FNM) shall mean a representative appointed by the local First Nations governments to monitor various aspects of the contract and will work through the OAM, the OEM, and the DR to address concerns, observations, and directives that are of interest to the First Nations People.
  - .10 “Elevated Trail” shall mean that portion of the trail the underside of which is elevated above the ground on average approximately 0.4 metres, except directly under stringers, or as agreed by the OEM through ephemeral ponds and bog area. This portion of the trail consists of timber decking supported on helical piles.
- 1.3. Hierarchy of Documents
- .1 In the event of discrepancies or conflict in the contents of the contract documents, the hierarchy of such documents shall be as specified in the General Conditions of the Contract, GC1.2.2 - Order of Precedence.
  - .2 In the event of any discrepancy or conflict in the information contained in the drawings and specifications, the rules as specified in the General Conditions of the Contract, GC1.2.2 - Order of Precedence shall apply.
  - .3 In the event of discrepancies between the technical specifications, the order of hierarchy shall be as follows, in descending order:
    - .1 These Specifications.
    - .2 BC MoTI Specifications.
  - .4 In the event of a difference between scaled dimensions on Plans and the figures written thereon, the figures shall govern. In the event that two or more plans show conflicting information, the information on the most recently dated plan shall govern. When both plans were issued on the same date, the drawings of larger scale govern over those of smaller scale.
  - .5 Any technical and manufacturer’s standard, Government Act, Regulation or Code of Practice referred to in the Contract documents shall be the version current at the time the Contract is awarded.
  - .6 If conflict arises between an item in the main body of these Specifications (Division 1 – Division 34) and an item found in one of the Appendices or Reference Documents, the main body of the Specifications (Division 1 – Division 34) shall govern.
  - .7 All such conflicts as noted above shall immediately be brought to the attention of the DR for confirmation of dimensions, specifications, and conditions.
- 1.4 Codes, Bylaws, Standards
- .1 Perform work to CURRENT Codes, Construction Standards and Bylaws, including Amendments.
  - .2 The Contractor shall abide by the ordinances, laws, rules, and regulations set out in the Canada National Parks Act and Regulations. Refer to Clause 1.17.4 of this specification for additional information.
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- .3 Perform work in accordance with the Canadian Standards Association, the American Society for Testing of Materials, British Columbia Building Code, TAC Geometric Guidelines, BC supplement to TAC, BC supplement to CHBDC and other indicated Codes, MOTI Pavement Structure Design Guidelines Technical Circular T-01/15, Master Municipal Construction Documents MMCD, Construction Standards and/or any other Code or Bylaw of local application.
  - .4 Comply with applicable local bylaws, rules and regulations enforced at the location concerned.
  - .5 Comply with all federal environmental legislation and regulations including Fisheries Act, Canada National Parks Act, Species at Risk Act, and Migratory Bird Convention Act.
  - .6 Meet or exceed requirements of Contract documents, specified standards, codes, and referenced documents.
  - .7 In any case of conflict or discrepancy, the most stringent requirements shall apply.
- 1.5 Contract Documents
- .1 The Contract Documents, drawings and specifications, are intended to complement each other, and to provide for and include everything necessary for the completion of the Work.
  - .2 Drawings are, in general, diagrammatic and are intended to indicate the scope and general arrangement of the Work.
  - .3 If anything is found by the Contractor to be missing from the Contract Documents immediately inform the DR.
- 1.6 Other Contracts
- .1 Further Contracts within the Park boundaries and/or within the project boundaries may be awarded while this contract is in progress.
  - .2 The Upscheek Ta-Shee Trail grade Contractor, Hazelwood Construction Ltd. of Nanaimo BC may still be active adjacent with deficiency work to the site depending upon the date the work is started.
  - .3 The Upscheek Ta-Shee Trail paving Contractor may still be active adjacent to the site with deficiency work depending upon the date the work is started
  - .3 Cooperate with other Contractors in carrying out their respective works, including BC Hydro, and carry out instructions from DR.
  - .4 Coordinate work with that of other Contractors. If any part of work under this Contract depends for its proper execution or result upon work of another Contractor, report promptly to DR, in writing, any defects which may interfere with proper execution of this Work.
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- 1.7 Division of Specifications .1 The specifications are subdivided in accordance with the current 6-digit National Master Specifications System.
- .2 A division may consist of the work of more than 1 subcontractor. Responsibility for determining which subcontractor provides the labour, material, equipment and services required to complete the work rests solely with the Contractor.
- 1.8 Project Location .1 The project is located near Highway 4, in the Long Beach Unit of Pacific Rim National Park Reserve, British Columbia approximately 1 km. north of the Park Reserve Administration Building. This project is part of a plan to create a multiuse pathway between Tofino, BC and Ucluelet, BC.
- 1.9 Time of Completion .1 Substantial completion of the work shall be achieved by August 31, 2021.
- 1.10 Contract Method .1 Construct Work under a Unit Price Contract.
- 1.11 Section Includes .1 In general, Work under this Contract covers the:
- .1 Trail construction including excavations, grading, filling, retaining wall construction, handrails, signs, culvert installations, drainage, and landscaping.
- .2 Place and compact hot mix asphalt pavement on the trail.
- .3 Pavement markings.
- .4 Control of invasive plant species in work done by Contractor.
- 1.12 Work Included .1 Work includes, but is not limited to:
- .1 General works:
- .2 Coordination and co-operation with environmental, archeology, and First Nations Monitors to protect features within the Park Reserve.
- .3 Protection and preservation of watercourses.
- .4 Provision of the Traffic Control Plan and all traffic control and site security throughout the duration of the Works. Provision of other work plans as detailed in the project specifications.
- .5 Supply and install two project signs (1,2 m X 2.4 m) on Highway 4 **and variable message boards at each end of the Park.**
- .2 Trail Construction including supply of materials:
- .1 Maintaining, and removal of temporary access points for trail construction.
- .2 Clearing of brush, fallen timber, grubbing and removal from site roots, organics, and woody debris from the proposed trail alignment
- .3 Salvage, stockpile, and replacement throughout site of organics, woody debris & stumps, as per direction of the OEM
- .4 Excavation, filling, shaping, and disposal of surplus material.
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- .5 Placement, and compaction of imported granular materials.
  - .6 Placement of root barriers, geotextiles, and erosion control materials as required.
  - .7 Installation of culverts, pipes, and drainage features.
  - .8 Construction of retaining walls.
  - .9 Placing and compacting granular subgrade fill, subbase, and base course to a uniform cross fall and profile.
  - .10 Installing safety railings and signs.
  - .11 Restoring and shaping the trail shoulders and all cut and fill slopes with salvaged native soils and woody debris. Select Cut/ fill slopes will have ECB.
  - .12 Installing rip rap where required.
  - .13 Place and compact hot mix asphalt pavement for the trail, highway widening, and highway culvert crossing.
  - .14 Apply thermoplastic or MMA (Methyl Methacrylate) to the new trail pavement as shown on the drawings and as specified.
  - .15 Place salvaged organics min 150mm thick outside of trail shoulder along newly paved trail. To match pavement surface place 0.2m wide granular base on either side of trail edge.
  - .16 Installing landscape materials as shown on the drawings and as directed by the DR.
- 1.13 Contractor's Responsibility
- .1 Coordination and communication with other Contractors, OEM, OAM, DR, and agencies involved with Project, if applicable.
  - .2 Give all required Notices and comply with all local, provincial, and federal laws, bylaws, ordinances, rules, regulations, codes, and orders relating to the Work which are or become in force during the Performance of the Work.
  - .3 As Prime Contractor, coordinate all the Work and provide all labour, materials, equipment, and services necessary for delivery, storage, handling, protection, installation, removal, inspection, and replacement or maintenance as required to provide a complete Project.
  - .4 All persons working for the Prime Contractor, including all sub-contractors, are required to attend a tailgate meeting with Park Reserve Administration personnel and OEM at the Pacific Rim National Park Reserve Administration Building regarding procedures for working within the Park Reserve. More than one meeting can be arranged to accommodate the Contractor's schedule and work forces. The training meeting will require about 2 hours to complete.
  - .5 The Prime Contractor shall have senior personnel attend a start-up meeting with both the Tla-o-qui-aht First Nation and Ucluelet First Nation Communities. This meeting provides an opportunity to present to the Nations the Contractor's schedule and work methodology, as well as an opportunity for the Nations to
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share with the Contractor available labour and service opportunities.

- .6 The Contractor shall also allow for senior personnel to attend a meeting before starting any works with the Elders Working Group. The purpose of this meeting is to provide the Contractor with an understanding of the protocol/teachings of working respectfully within the Nations Hahoulthee (traditional territories).
  - .7 All persons working for the Prime Contractor, including all sub-contractors and their employees shall adhere to the restrictions and requirements set out in these specifications.
- 1.14 Conforming and Alternative Details .1 All details shall conform to the Contract Documents and Drawings. The Contractor may propose alternative details to the DR. Any request proposing a change to the Contract must be submitted in writing to the DR, in accordance with 01 33 00 - Submittal Procedures, clearly identifying the reason for the change and any cost savings or extra cost.
- .2 The submission shall include, where appropriate, drawings or technical letter of the alternative detail prepared and sealed by a professional engineer registered with EGBC.
  - .3 If the alternative detail represents a clear improvement, it may be accepted without any price adjustment.
  - .4 If the alternative detail is accepted in whole or in part, the Contractor shall be responsible for all additional costs related to other parts of the work which arise due the alternative detail.
  - .5 The Contractor shall be responsible for all costs related to drawing and design changes required as a result of the substitution.
  - .6 The DR reserve the right to reject any proposed alternative details.
- 1.15 Work Schedule .1 Carry on work as follows:
- .1 Within 10 working days after Contract award, provide a "phasing bar chart" and a schedule showing anticipated progress stages and final completion of the Work within the time required by the Contract documents. Indicate the following:
    - .1 Submission of shop drawings, product data, MSDS sheets, and samples.
    - .2 Restrictions for traffic lane closures. No closures are permitted on long weekends from May through September.
    - .3 Commencement and completion of Work of each section of the specifications or drawings as outlined.
    - .4 Take into consideration heavy rainfall delays based upon historical rainfall events.
    - .5 Final completion date within the time required by the Contract
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documents.

- .2 Do not change approved Schedule without notifying DR.
  - .3 Interim reviews of work progress based on work schedule will be conducted as decided by DR and schedule updated by Contractor in conjunction with and to approval of DR.
  - .4 No work will be permitted within existing parking lots and no storage of materials or equipment will be permitted in public parking lots between the Victoria Day long weekend and the Labour Day long weekend, inclusive, except with the written permission of the DR.
- 1.16 Documents Required
- .1 Maintain 1 copy each of the following at the job site:
    - .1 Contract drawings.
    - .2 Contract specifications.
    - .3 Addenda to Contract documents.
    - .4 Copy of approved work schedule.
    - .5 Reviewed/approved shop drawings.
    - .6 Change orders.
    - .7 Other modifications to Contract.
    - .8 Field test reports.
    - .9 Reviewed/approved samples.
    - .10 Manufacturers' installation and application instructions.
    - .11 One set of record drawings and specifications for "as-built" purposes.
    - .12 Current construction standards of workmanship listed in technical Sections.
    - .13 Project Safety Plan / reviewed Traffic Control Plan.
    - .14 Copy of approved Work schedule.
    - .15 Labour conditions and wage schedules.
    - .16 Pacific Rim National Park Reserve Business License.
    - .17 Environmental and Cultural Resources Procedures.
    - .18 Environmental Report & Drawings (To be issued at award - Confidential, to be secured.)
    - .19 Archeological Report and Drawings (To be issued at award - Confidential, to be secured.)
    - .20 Owner's Environmental Management Plan (EMP) (To be issued at Award.)
    - .21 Owner's Cultural Resources Protection Plan (CRPP) (To be issued at Award.).
    - .22 Copy of applicable federal permits issued for the work including
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CNPA, SARS, DFO and other permits.

.23 All applicable work plans.

1.17 Regulatory  
Requirements

- .1 While all projects on lands managed by Parks Canada must adhere to Federal laws and regulations, it is considered best practice to meet or exceed provincial or municipal laws, regulations and standards related to the environment if it can reduce the overall impact of the project.
- .2 Obtain and pay for Building Permit, Certificates, Licenses, and other permits required by regulatory municipal, provincial or federal authorities to complete the work.
- .3 The Prime Contractor and every sub-contractor is required to obtain and pay for a Pacific Rim National Park Reserve Business License. Business licenses are available from the Pacific Rim Park Reserve Administration building. Application for licenses shall apply a minimum of 4 weeks prior to arriving on site.
- .4 The Owner will issue a CNPA Permit to permit the Contractor to undertake required activities that normally violate the Canada National Parks Act and Regulations Act, such as tree removal, excavation, etc. No works shall proceed until the Contractor is in possession of the CNPA Permit.
- .5 Provide inspection authorities with plans and information required for issue of acceptance certificates.
- .6 Furnish inspection certificates in evidence that the work conforms to the requirements of the authority having jurisdiction.
- .7 Suitable habitat for the Dromedary Jumping-slug, is located within the Project area and the Project has a Species Act Risk Act-Compliant Authorization to reduce potential impact to the species. Contractor will need to coordinate with and follow advice from the OEM to avoid impacts to species at risk and their habitat. Refer to Section 01 35 43 – Environmental Procedures for further details.
- .8 The project site is located adjacent to the marine shoreline at Long Beach. It is a violation of the Fisheries Act to release deleterious substances to the marine environment that could cause harm to fish or fish habitat. While this work does not require a DFO permit, DFO regulations apply with regards to protecting the sensitive marine shoreline adjacent to the project site.

1.18 Contractor's Use  
of Site

Use of site:

- .1 Exclusive and complete for execution of the Trail Work within the cleared forest area of the work.
  - .2 Temporary access points to highway 4: Works shall be coordinated to create minimum disruption for highway users.
  - .4 Assume responsibilities for assigned premises for performance of this
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Work.

- .5 Be responsible for coordination of all Work activities on site, including the Work of other contractors engaged by the DR.
  - .2 Access to the trail work site shall be by way of the proposed access points only. Creating additional access points is not permitted.
  - .3 Perform Work in accordance with Contract documents. Ensure work is carried out in accordance with indicated phasing.
  - .4 Do not unreasonably encumber site with material or equipment.
  - .5 The Contractor shall park employee vehicles and equipment in existing parking areas or in those areas designated and approved by the DR. Vehicle parking within the highway ROW or any other road ROW is prohibited unless required to undertake the work and approved in advance by the DR. Where the Contractor requires vehicles or equipment to be parked within any road or highway ROW, the Contractor shall submit a parking plan request a minimum of ten days prior to the required parking for review and approval by the DR. The DR may request changes to any plan to ensure that proposed locations for parking are satisfactory for each Project site.
- 1.19 Traffic Control
- .1 Do not close any lanes of highway 4 without consulting DR. Contractor to keep one lane open all the time for alternating traffic. Contractor to submit a road closure plan to review by DR, Parks and Public works three weeks before the planned lane closures. Before impacting traffic erect suitable signs and devices in accordance with instructions contained in the Ministry of Transportation "Traffic Control Manual for Work on Roadways".
  - .2 The Contractor shall have prepared a Traffic Management Plan (TMP) by a person or company certified in this work. All lanes of traffic shall remain open during long weekends in June, July, August, and September due to heavy traffic usage in the Park Reserve.
  - .3 During lane closures the number of certified flag control personnel described in the TMP shall be used to direct traffic. Under normal operations and procedures vehicles shall not be delayed by more than 10 minutes by the work.
- 1.20 Examination
- .1 Examine the site and be familiar and conversant with existing conditions likely to affect work. It is strongly recommended that the Contractor becomes familiar with the terrain, access, weather, wetlands and expected ground conditions along the trail alignment prior to bidding the work.
  - .2 Provide photographs of surrounding properties, objects and structures liable to be damaged or be the subject of subsequent claims.
- 1.21 Existing Services
- .1 Location of utilities shown on the drawing are to be considered as approximate. The Contractor shall use standard methods to locate & protect existing utilities.
  - .2 Utilities are shown on specific sheets designated utilities. Contractor will be required to do these utility locations. Water main was installed with directional
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drilling, no trench line is visible.

1.22 Location of  
Equipment and  
Fixtures

- .1 Location of equipment, fixtures, and outlets indicated or specified are to be considered as approximate.
- .2 Locate equipment, fixtures, and distribution systems to provide minimum interference and maximum usable space, and in accordance with manufacturer's recommendations for safety, access and maintenance.
- .3 Inform DR of impending installation and obtain DR's approval for actual location.
- .4 Submit field drawings or shop drawings to indicate the relative position of various services and equipment when required by the DR and/or as specified.
- .5 For storing the construction equipment at night, Parks Canada may provide a location to create a secure compound upon discussion with them.

1.23 Cutting and  
Patching

- .1 Cut existing surfaces only as required to accommodate new work and as directed by the DR.
- .2 Remove items so shown or specified.
- .3 Do not cut, bore, or sleeve load-bearing members unless instructed to do so by the drawings and/or specifications.
- .4 Make cuts with clean, true, smooth edges. Make patches inconspicuous in final assembly.
- .5 Fit work watertight to pipes, sleeves, ducts and conduits.
- .6 Patch and make good surfaces cut, damaged or disturbed, to DR's approval. Match existing material, colour, finish and texture.
- .7 Making good is defined as matching construction and finishing materials and the adjacent surfaces such that the difference between existing and new surfaces is less than 6 mm over a distance of 3.0 metres.

1.24 Setting Out  
Work

- .1 Assume full responsibility for and execute complete layout of work to lines dimensions, thicknesses, cross slopes, and tolerances indicated. Match into the previously constructed works. The Contractor shall lay out the work in the field to confirm the project design blends into the existing grades for both vertical and horizontal alignment. A string line shall be used to set out one side of the trail prior to paving to ensure a smooth horizontal alignment.
  - .2 Provide devices needed to layout and construct work and supply such devices as straight edges, templates, etc. required to facilitate DR's inspection of work.
  - ~~.3 After clearing trees, brush, and other vegetation from the Work site and clear site lines are available the Contractor shall survey the existing slope in sufficient detail to provide the DR with an accurate digital terrain model in an AutoCAD format compatible to the existing design drawings. This shall be provided to the DR at least 2 weeks prior to the start of the earthworks to permit time to modify the design of the trail to fit into the existing contours more~~
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~~closely. A separate pay item is provided in the unit price table for this work.~~

- .4 Layout and survey works should be considered in the context of the construction sequencing and methodology plan that is to be prepared, submitted and managed throughout the project. (see clause 1.26 below and Section 01 33 00 Submittal Procedures)
- 1.25 Quality of Work
- .1 Ensure that quality workmanship is performed through use of skilled tradesmen, under supervision of qualified journeyman.
  - .2 The workmanship, erection methods, and procedures to meet minimum standards set out in the applicable codes and standards.
  - ~~.3 In cases of dispute, decisions as to standard or quality of work rest solely with the DR, whose decision is final.~~
  - .3 In cases of dispute, if a resolution is unable to be obtained, GC 8 Dispute Resolution process will be followed.
- 1.26 Work Coordination
- .1 Coordination of work with other Contractors:
    - .1 The Contractor shall coordinate the work of their crews and the crews of subtrades with other Contracts that are proceeding in the Park Reserve as to not delay or interfere with the work of other contractors. Where the work of another Contract is to match into this Contract work, the Contractor shall perform the Work such that it matches to other work. If it appears a conflict will arise between Contractors, notify the DR immediately.
    - .2 Deficiency work clean-up by previous trail Contractors.
    - .3 BC Hydro and Telus relocation of anchors and/or hydro poles.
  - .2 Coordinate work of subtrades:
    - .1 Designate one person to be responsible for review of contract documents and shop drawings and managing coordination of Work.
  - .3 Coordinate work with Environmental, Archeology, and First Nations Monitors:
    - .1 This project is being carried out in a National Park Reserve which has strict requirements for the protection and preservation of environmental and archeological assets within the Park Reserve.
    - .2 The Owner shall employ and pay for the Owner's Environmental Monitor (OEM), an Archeological Monitor (AM), and First Nations Monitors at no cost to the Contractor. They will protect the assets of the Park Reserve during construction and will also provide information to the Contractor to assist with the Work. The OEM and AM will have the authority to stop the work if, in their opinion, continuing the Work will result in unacceptable damage to the Park Reserve assets.
    - .3 Attend regular morning start up tailgate meetings with the OEM to plan the day's work.
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- .4 The OEM will discuss with the Contractor of any concerns or special environmental measures that need to be taken within the area of work for the period covered.
  - .5 The Archeological Monitor will discuss with the Contractor of any concerns or special measures that need to be taken within the area of work for the period covered. The Contractor may be provided with confidential maps and plans of archeological assets in the Park Reserve that require special treatment or avoidance
  - .6 The Park Reserve is home to several Species at Risk (Dromedary Jumping Slug and others) which will require additional diligence on the part of the Contractor. The OEM and/or Qualified Environmental Professional will arrange for advance surveys depending on location, timing and type of work and salvage and removal of several species of amphibians from the alignment prior to the Contractor doing work in the area. The Contractor will need to coordinate their work to provide sufficient time for the survey and salvage operations to occur.
- .4 This section of trail is being constructed in a geotechnically sensitive area with considerations of slope stability. All earthwork and retaining wall construction is to be coordinated with the Owner's Geotechnical Engineer.
- .5 Convene meetings between subcontractors whose work interfaces and ensure awareness of areas and extent of interface required.
- .1 Provide each subcontractor with complete plans and specifications for Contract, to assist them in planning and carrying out their respective work.
  - .2 Develop coordination drawings when required, illustrating potential interference between works of various trades and distribute to affected parties.
    - .1 Identify on coordination drawings, structural elements, services lines, rough-in points, and indicate location of services entrance to site.
  - .3 Facilitate meeting and review coordination drawings. Ensure subcontractors agree and sign-off on drawings.
  - .4 Publish minutes of each meeting.
  - .5 Plan and coordinate work in such a way to minimize quantity of service line offsets.
  - .6 Submit copy of coordination drawings and meeting minutes to the DR for information purposes.
  - .7 Coordinate and plan for all necessary lane closures in advance.
- .6 Submit shop drawings and order equipment and materials only after coordination meeting for these have taken place. Note that there is a requirement for a construction sequencing, schedule, and methodology plan prepared in co-operation with an independent geotechnical engineer prior to
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- mobilization. See Submittals Section of specifications.
- .7 Work cooperation:
- .1 Ensure cooperation between trades in order to facilitate general progress of Work and avoid situations of spatial interference.
- .2 Ensure that each trade provides all other trades reasonable opportunity for completion of Work and in such a way as to prevent unnecessary delays, cutting, patching, and removal or replacement of completed work.
- .3 Ensure disputes between subcontractors are resolved.
- .8 The Owner is not responsible for, or accountable for extra costs incurred as a result of Contractor's failure to coordinate Work.
- .9 Maintain efficient and continuous supervision.
- 1.27 Approval of Shop Drawings, Product Data and Samples
- .1 In accordance with Section 01 33 00 – Submittal Procedures, submit the requested shop drawings, product data, MSDS sheets, and samples indicated in each of the technical Sections.
- .2 Allow sufficient time for the following:
- .1 Review of product data.
- .2 Approval of shop drawings.
- .3 Review of re-submission.
- .4 Ordering of approved material and/or products.
- 1.28 Archeological, Relics, Antiques, and Items of Cultural Significance
- .1 Pacific Rim National Park Reserve is home to a significant number of archeological sites and other sites of cultural interest. All works shall be carried out in accordance with Section 01 35 44 – Cultural Resource Procedures.
- .2 The successful Contractor may be provided with confidential plans and drawings showing locations of areas of archeological and cultural interest. These plans shall remain the property of the Parks and be returned upon completion of the project. The Contractor will maintain confidentiality of these plans to protect the resources of the Park Reserve.
- 1.29 Species at Risk
1. Pacific Rim National Park Reserve is home to several listed species at risk and areas of critical habitat. The Contractor shall avoid contact or damage to at risk species or critical habitat to all reasonable extents possible. All works shall be carried out in accordance with Section 01 35 43 – Environmental Procedures.
2. The Contractor shall be provided with confidential plans and drawings showing locations of areas of species at risk and other sensitive habitats in the project area. These plans shall remain the property of the Parks and be returned upon completion of the project. The Contractor will maintain confidentiality of these plans to protect the resources of the Park Reserve.
- 1.30 Owner's
- .1 While the Contractor is responsible for supervising and coordinating their work,
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**Environmental  
Monitor (OEM)**

the Contractor will receive directions and instructions from the OEM with respect to all environmental issues. The OEM will be employed by the Owner. The OEM shall review and approve the Contractor's work plans and provide direction as to acceptable working methods and the mitigation measures required to comply with Section 01 35 43 - Environmental Procedures. The Owner is responsible for providing additional environmental monitors to support the OEM as deemed necessary by the OEM. The additional environmental monitors will work under the direction of the OEM to ensure sufficient monitoring is provided for each worksite. The Contractor will conduct their operations in an efficient manner to minimize the need for and time required by additional OEM's.

**1.31 Project Meetings .1**

DR will arrange project meetings and assume responsibility for setting times and recording and distributing minutes.

**1.32 Testing and  
Inspections .1**

Particular requirements for inspection and testing to be carried out by testing service or laboratory approved by the DR are specified in Section 01 45 00 – Quality Control.

**.2**

The Contractor will appoint and pay for the services of testing agencies and/or testing laboratories to meet the requirements specified in the Contract documents and where required for the following:

.1 Inspection and testing required by laws, ordinances, rules, regulations or orders of public authorities.

.2 Inspection and testing performed for Contractor's convenience.

.3 Tests specified to be carried out under the DR's supervision.

**.3**

Where tests or inspections by designated testing laboratory reveal work is not in accordance with the Contract requirements, Contractor shall pay costs for additional tests or inspections as the DR may require to verify acceptability of corrected work.

**.4**

Contractor shall notify DR in advance of planned testing.

**.5**

Where materials are specified to be tested, deliver representative samples in required quantity to testing laboratory.

**.6**

Pay costs for uncovering and making good work that is covered before required inspection or testing is completed and approved by DR.

**.7**

The DR may require, and pay for, additional inspection and testing services not included here.

**.8**

Provide DR with 2 copies of testing laboratory reports and mill tests and certificates of compliance as soon as they are available.

**1.33 As-Built  
Documents .1**

The DR will provide the Contractor with 2 sets of drawings, 2 sets of specifications, and 2 copies of the AutoCAD files for "as-built" purposes.

**.2**

As work progresses, Contractor is to maintain accurate records to show all deviations from the Contract documents. Note on as-built specifications, drawings, and shop drawings as changes occur. At the end of the work

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Contractor is to supply the DR the records of the changes in the drawings and specifications to prepare as-built drawings.

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|-------------------------------|--|--|----|--|----|---|----|---|----|---|
| 1.34 Cleaning                 | .1   | Conduct daily cleaning and disposal operations. Comply with local ordinances and anti-pollution laws.  |    |  |    |   |    |   |    |   |
|                               | .2   | Ensure cleanup of the work areas each day after completion of work.  |    |  |    |   |    |   |    |   |
|                               | .3   | In preparation for final inspections: <table border="0" style="margin-left: 20px;"><tr><td style="vertical-align: top;">.1</td><td>The finished paved trail shall be shaped to the cross section specified, compacted to the specified density, and clear of debris and extraneous materials.</td></tr><tr><td style="vertical-align: top;">.2</td><td>Remove and dispose of surplus construction materials.</td></tr><tr><td style="vertical-align: top;">.3</td><td>All new road and parking surfaces, and existing road surfaces that were soiled by the Contractors activities, shall be broom clean.</td></tr><tr><td style="vertical-align: top;">.4</td><td>Ensure all attachments on bridges, railings, gates, signs, and baffles disturbed by Contractor are tightened to industry standards.</td></tr></table> | .1 | The finished paved trail shall be shaped to the cross section specified, compacted to the specified density, and clear of debris and extraneous materials. | .2 | Remove and dispose of surplus construction materials. | .3 | All new road and parking surfaces, and existing road surfaces that were soiled by the Contractors activities, shall be broom clean. | .4 | Ensure all attachments on bridges, railings, gates, signs, and baffles disturbed by Contractor are tightened to industry standards. |
| .1                            | The finished paved trail shall be shaped to the cross section specified, compacted to the specified density, and clear of debris and extraneous materials. |  |    |  |    |   |    |   |    |   |
| .2                            | Remove and dispose of surplus construction materials.  |  |    |  |    |   |    |   |    |   |
| .3                            | All new road and parking surfaces, and existing road surfaces that were soiled by the Contractors activities, shall be broom clean.                        |  |    |  |    |   |    |   |    |   |
| .4                            | Ensure all attachments on bridges, railings, gates, signs, and baffles disturbed by Contractor are tightened to industry standards.                        |  |    |  |    |   |    |   |    |   |
|                               | .4   | Use cleaning materials and methods in accordance with instructions of the manufacturer of the surface to be cleaned.   |    |  |    |   |    |   |    |   |
| 1.35 Invasive Species         | .1   | The Contractor shall be diligent to avoid the introduction of invasive species of plants into the park and avoid moving invasive species already within the park to new locations. All works shall be carried out in accordance with Section 01 35 43 – Environmental Procedures.  |    |  |    |   |    |   |    |   |
| 1.36 Environmental Protection | .1   | The Project is within the boundaries of the Pacific Rim National Park Reserve, an area of significant ecological importance. As a result, stringent environmental controls will be placed on the works as described in Section 01 35 43 - Environmental Procedures. The Contractor shall be in full compliance with the contract environmental procedures, all regulatory approval terms and conditions and all applicable environmental legislation at all times throughout the duration of the contract, including during any shutdown periods.  |    |  |    |   |    |   |    |   |
| 1.37 Additional Drawings      | .1   | The DR may furnish additional drawings for clarification. These additional drawings have the same meaning and intent as if they were included with plans referred to in the Contract documents.  |    |  |    |   |    |   |    |   |
|                               | .2   | Upon request, the DR may furnish up to a maximum of 2 full size sets and 6 tabloid size sets of Contract drawings and 2 sets of documents for use by the Contractor at no additional cost. Should sets of drawings or documents be required the DR will provide them at additional cost. An electronic copy will be provided at time of Award.   |    |  |    |   |    |   |    |   |
| 1.38 Additional Information   | .1   | A geotechnical assessment report prepared by WSP Canada Inc. dated February 2021 is provided for reference purposes only.  |    |  |    |   |    |   |    |   |
| 1.39 System of Measurement    | .1   | The metric system of measurement (SI) will be employed on this Contract. All survey and co-ordination data are in the NAD 83 coordinate system except  |    |  |    |   |    |   |    |   |
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where local survey coordinates and elevations were used for detail plans of isolated areas of the project.

1.40 Measurement for .1  
Payment

The Contractor shall make and record all measurements for payment. Methods for measurement shall be reviewed and accepted by the DR before the start of work for each item and area. The measured quantities are not final until accepted by the DR. The DR reserves the right to make independent measurements and calculations to verify or use in place of the Contractor's measurements for purposes of payment.

1.41 Familiarization .1  
with Site

Before submitting tender, it is recommended to visit the site to become familiar with all conditions likely to affect the cost of the Work. It should be noted that the location of the Work site has high annual rainfall, exceeding 3,000 mm with most precipitation between October and April. This will significantly impact the Contractor's work efficiency during those months. The environmental mitigation measures required for working in a National Park Reserve are stringent and the Contractor should review Section 01 35 43 - Environmental Procedures, in detail to understand the impact these measures may have on the cost of the Work. Weather shutdowns are determined based on the potential environmental impact and are at the discretion of the OEM irrespective of precipitation amount. Additional weather-related information can be found on the Government of Canada web site at:

[http://climate.weather.gc.ca/climate\\_normals/results\\_1981\\_2010\\_e.html?searchType=stnName&txtStationName=tofino&searchMethod=contains&txtCentralLatMin=0&txtCentralLatSec=0&txtCentralLongMin=0&txtCentralLongSec=0&stnID=277&dispBack=1](http://climate.weather.gc.ca/climate_normals/results_1981_2010_e.html?searchType=stnName&txtStationName=tofino&searchMethod=contains&txtCentralLatMin=0&txtCentralLatSec=0&txtCentralLongMin=0&txtCentralLongSec=0&stnID=277&dispBack=1)

1.42 Submission of .1  
Bid

Submission of a bid is deemed to be confirmation of the fact that the Bidder has analyzed the Contract documents and is fully conversant with all conditions therein.

.2

The environmental and archeology requirements for successfully working in Pacific Rim National Park Reserve are extensive and may have a considerable impact on the costs to complete the tendered works successfully. It is strongly recommended that prospective Bidders review and understand the environmental requirements which have implications for work planning, methods, scheduling, and coordination with Government Representatives.

1.43 Working Hours .1

Hours of work shall be limited to 8:00 am until 6:00 pm, unless written permission is granted by the DR for specific time slots. Night work using lights is not permitted due to negative effects on wildlife. As per Specification 01 35 00, Clause 1.9.3, lane closures on roads are not permitted on long weekends between May and September. Weekend work is permitted.

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# PCA

Wayii Trail Construction  
Pacific Rim National Park Reserve, BC  
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**GENERAL  
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**END OF SECTION**